

MCP Patterns

Beating Context Bloat



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The **MCP** Promise

**Standardized
tool access**

**Integration
to enterprise
systems**



THE CONNECTIVITY EXPLOSION

The MCP Promise vs. Reality

Promise

One protocol to rule them all (Slack, Jira, SQL, GitHub)

Reality

Every new tool added is another paragraph in the system prompt

Result

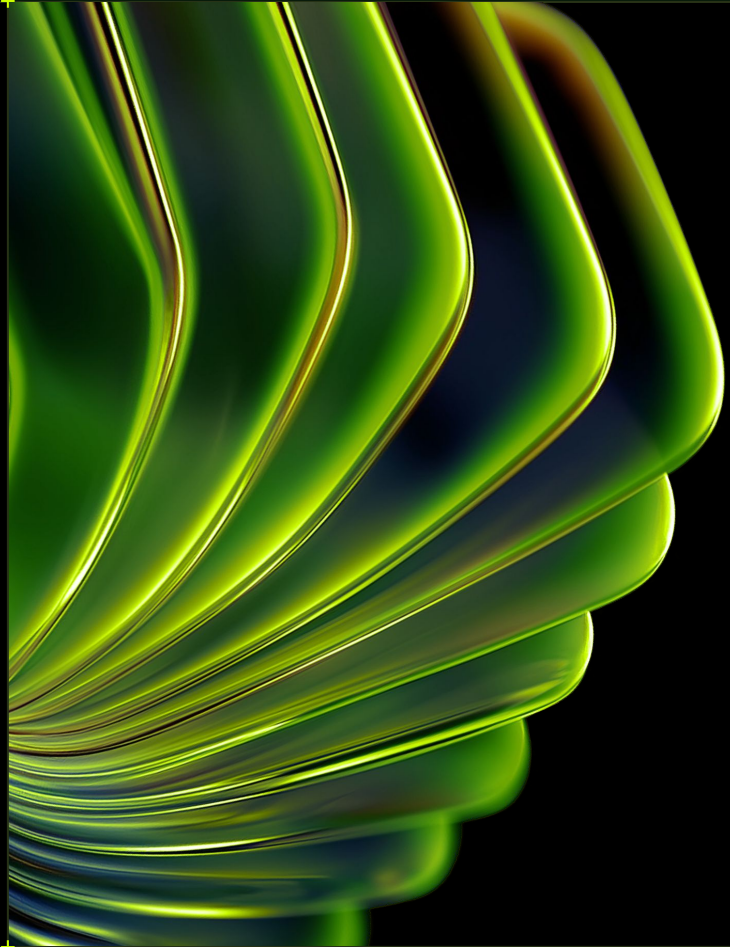
A 'System Prompt' that looks like a legal contract



THE HIDDEN SCALING PROBLEM

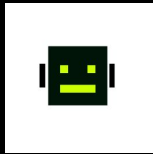
Context Bloat

- Too many tools
- Large prompts
- Slower reasoning
- Higher hallucination risk



Idealistic MCP Architecture

MCP Clients
/ AI Agents



MCP Server

Tool

Tool



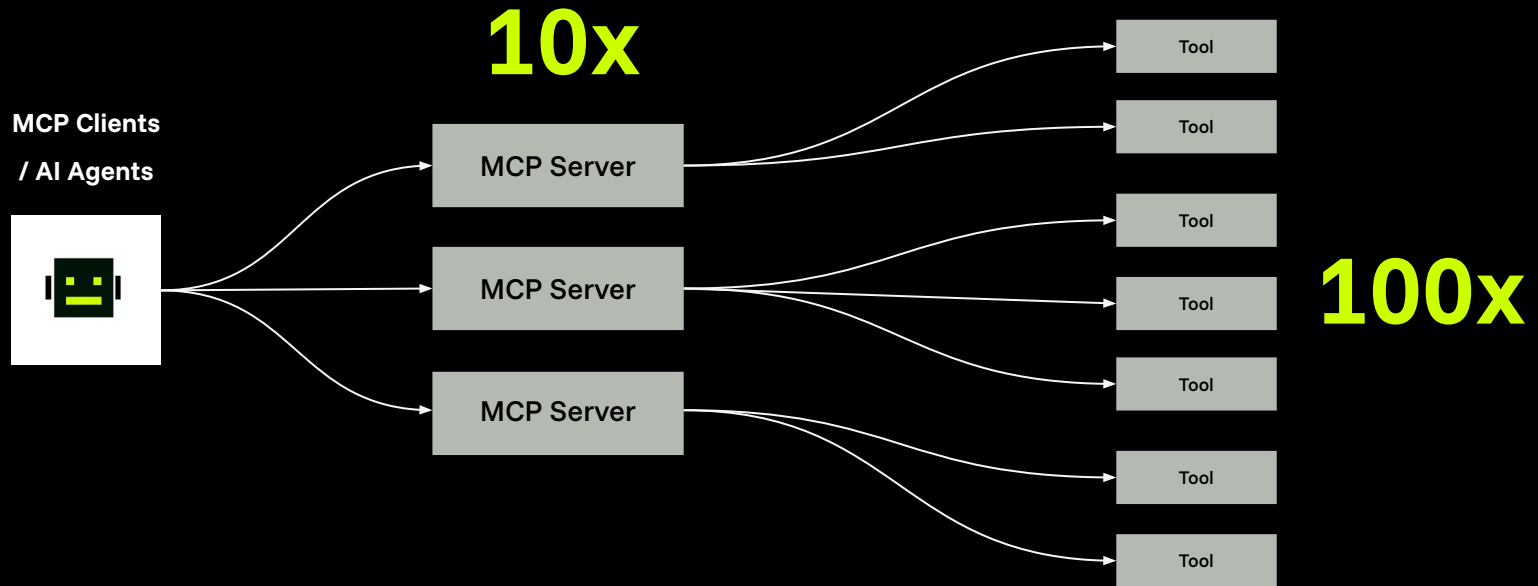


DEMO

Let's break some things



Idealistic Reality-checked MCP Architecture



WHY "JUST IN CASE" FAILS

The Hidden Taxes on AI Performance

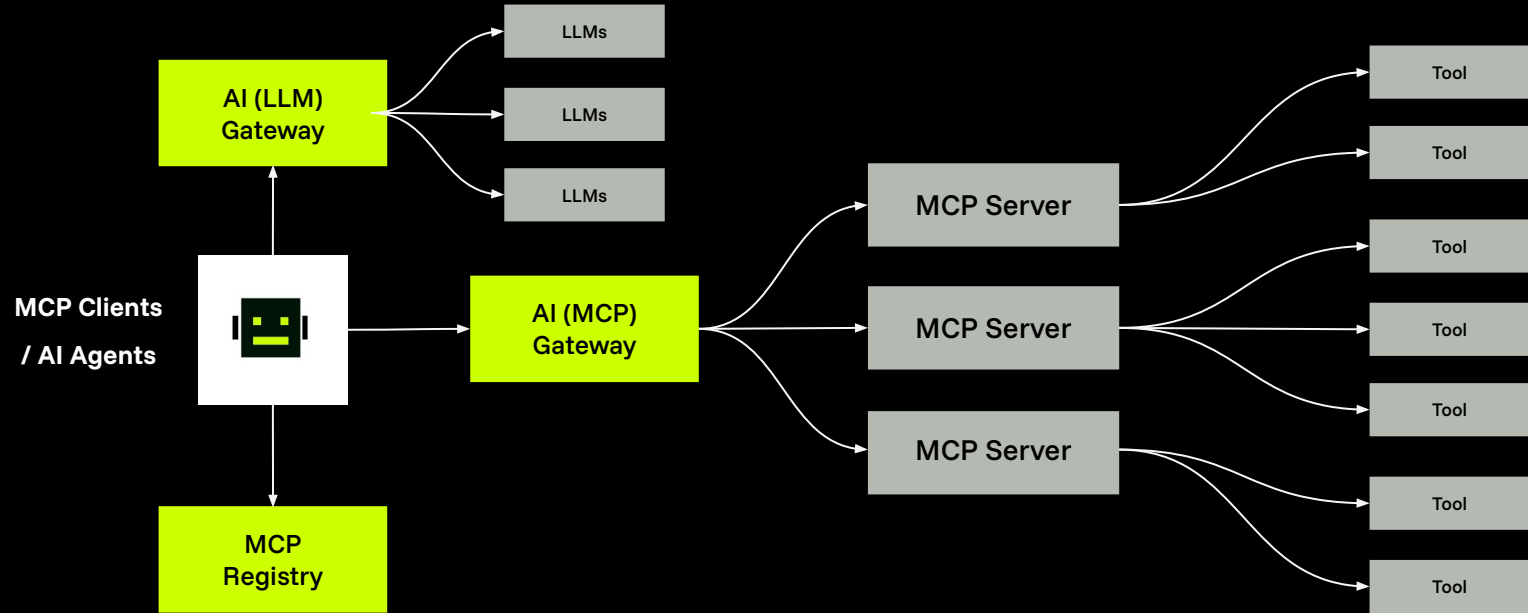
- **Latency Tax:** LLMs take longer to 'reason' over massive prompts.
- **Fiscal Tax:** You are paying for those thousands of "Tool Definition" tokens every single turn.
- **Intelligence Tax:** "Lost in the Middle" syndrome where the LLM misses the right tool because of the noise.



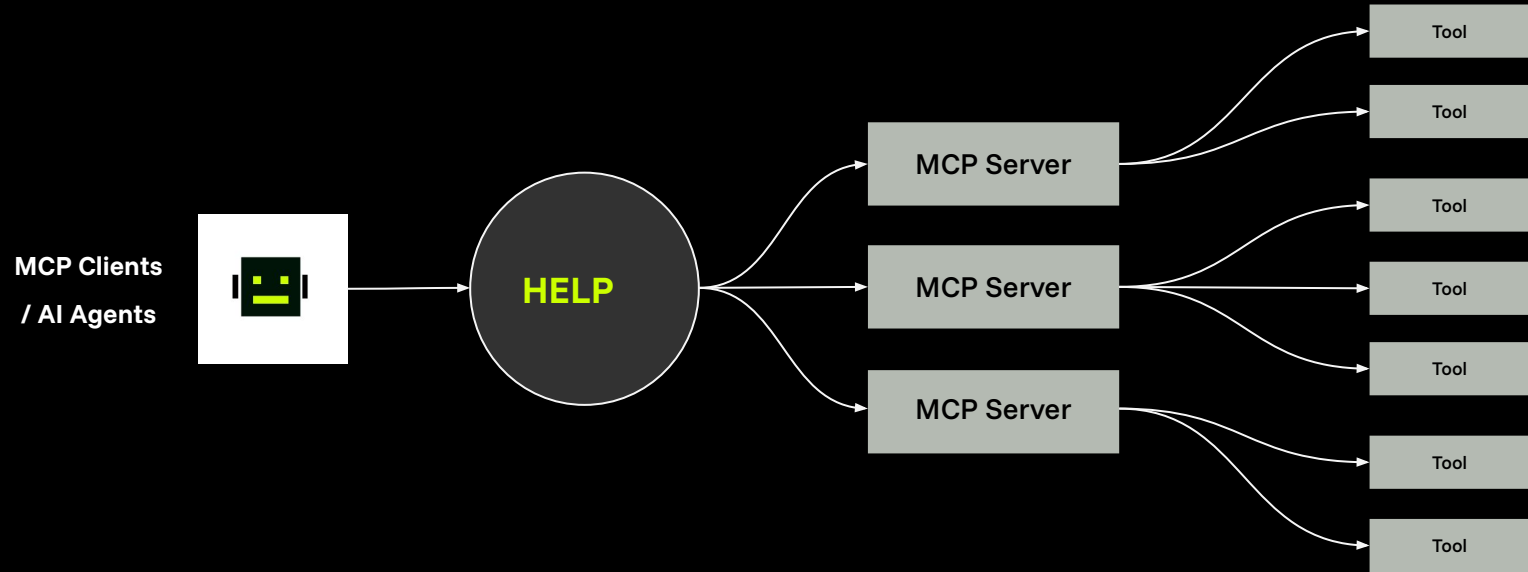
Agents should receive tools **just in time**, not just in case



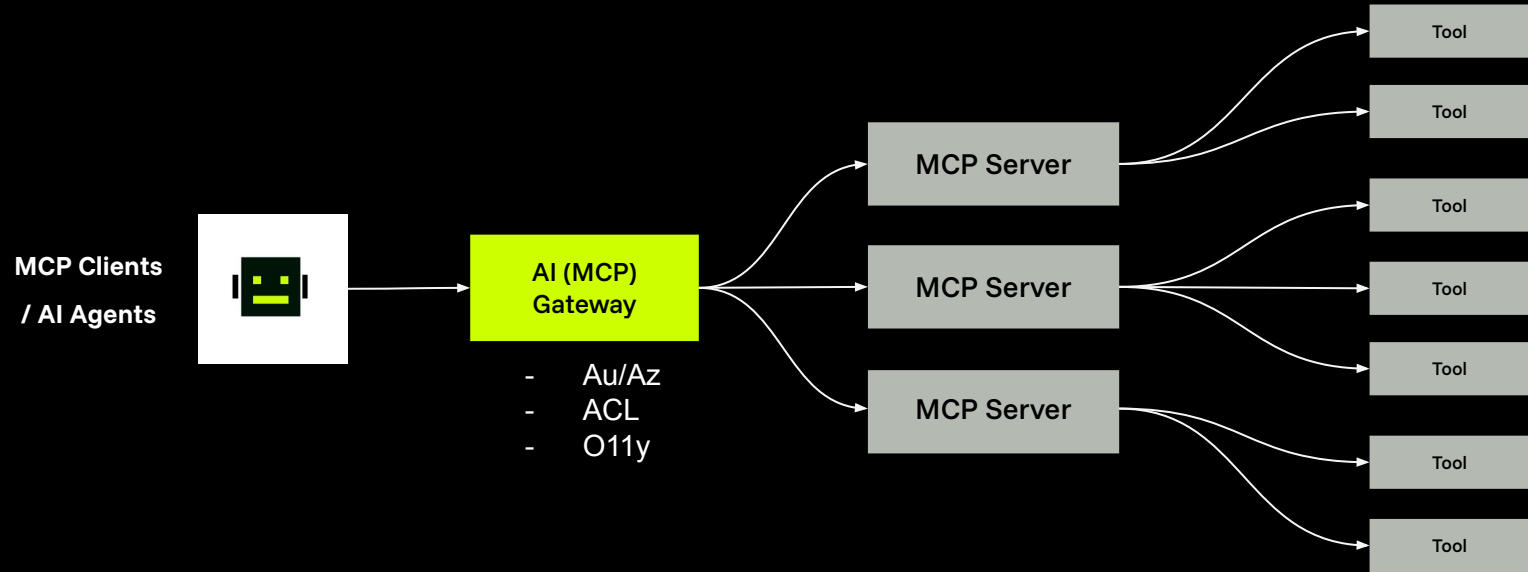
MCP Gateway Architecture



MCP Missing Component



MCP Gateway Architecture



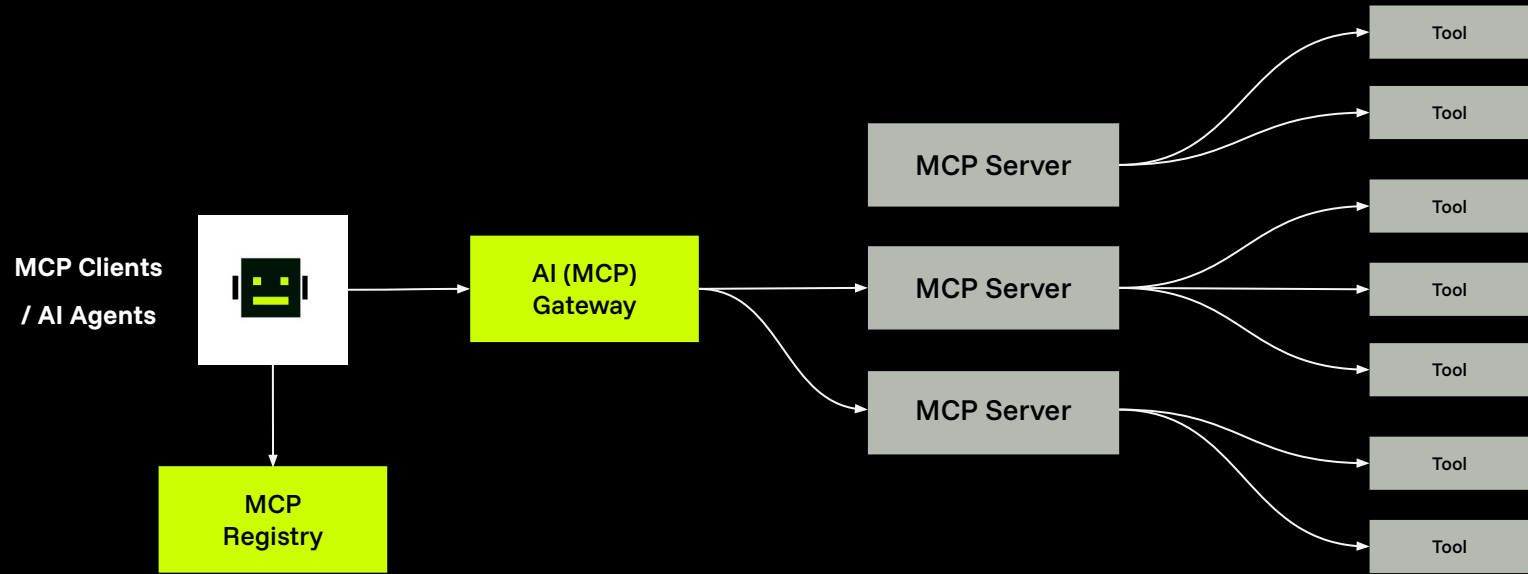


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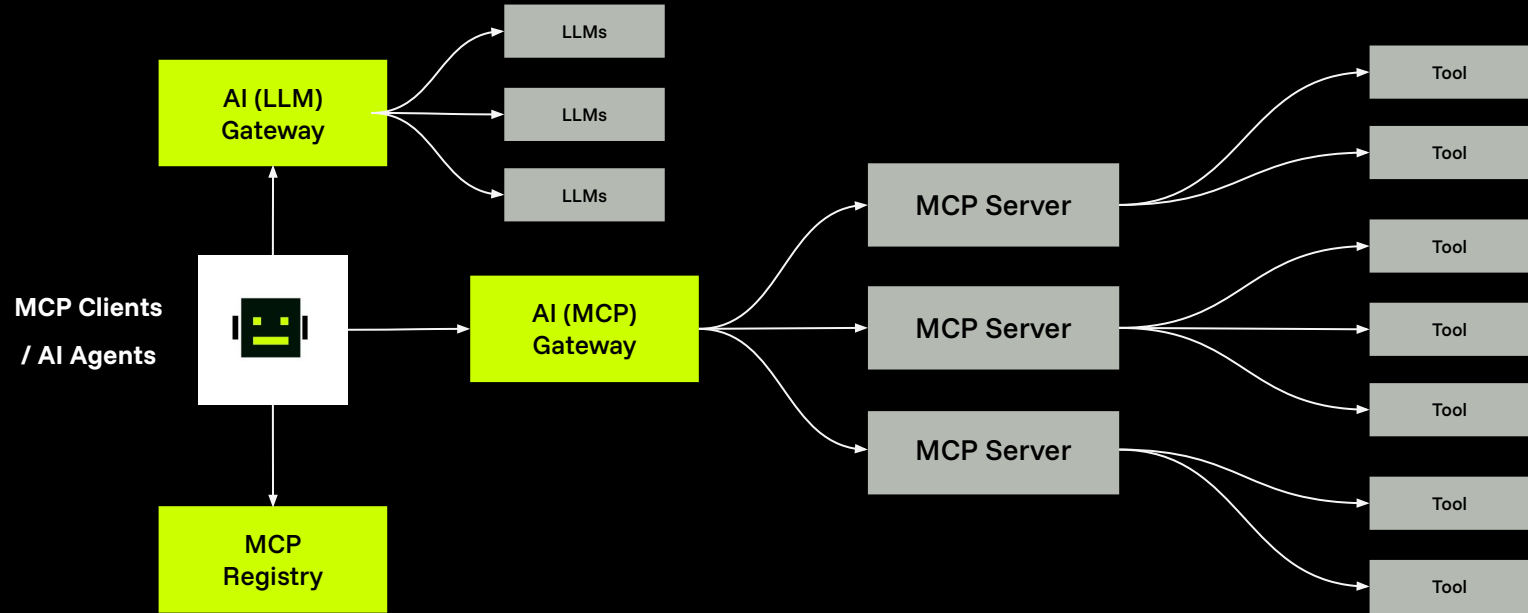
MCP Gateway Architecture



- Service Discovery
- Endpoint Resolution
- Run Time Discovery & Resolution



MCP Gateway Architecture



HOW IT WORKS

MCP Tool Selection using the Registry and Gateway patterns

- Agent handles Prompt
- Agent searches registry for servers
- MCP gateway filters tools
- Injects relevant authorized tools





DEMO

Let's break some things



DEMO Setup



TAKEAWAYS

The future of agent systems is not bigger prompts; it is smarter routing

- MCP will dramatically increase tool counts
- Prompt injection does not scale
- Semantic selection makes agent infrastructure viable at enterprise level



Thank you!

Ready for what's next?
Let's talk

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Kong





Presentation title



Speaker Name

POSITION

JAN 2026

AGENDA

January '26

1 Add section title

2 Add section title

3 Add section title

4 Add section title



Meet the team

Full Name	Full Name	Full Name	Full Name	Full Name	Full Name
Title	Title	Title	Title	Title	Title
Full Name	Full Name	Full Name	Full Name	Full Name	Full Name
Title	Title	Title	Title	Title	Title



**Write a bold, compelling statement
about what the next section will
communicate.**



Agents should receive tools **just in time**, not just in case



Meet the **team**



Full Name Title	Full Name Title	Full Name Title
Full Name Title	Full Name Title	Full Name Title



A secure foundation for **software development** and deployment

Galaxy astronaut nebula the orbit
Comet blackhole supernova (~60)

100,000

Galaxy astronaut nebula the orbit
Comet blackhole supernova (~60)

100TB

Galaxy astronaut nebula the orbit
Comet blackhole supernova (~60)

99.99%

Galaxy astronaut nebula the orbit
Comet blackhole supernova (~60)

+80K

Galaxy astronaut nebula the orbit
Comet blackhole supernova (~60)

120M

Galaxy astronaut nebula the orbit
Comet blackhole supernova (~60)

<10ms

Galaxy astronaut nebula the orbit
Comet blackhole supernova (~60)



GRAVITY ORBIT COSMOS

Runtime infrastructure for the agentic era

Demonstrate the benefits of the partnership through charts, graphs, and statistics. Use this space to explain what the data shows and how it impacts both businesses.

GRAVITY ORBIT COSMOS

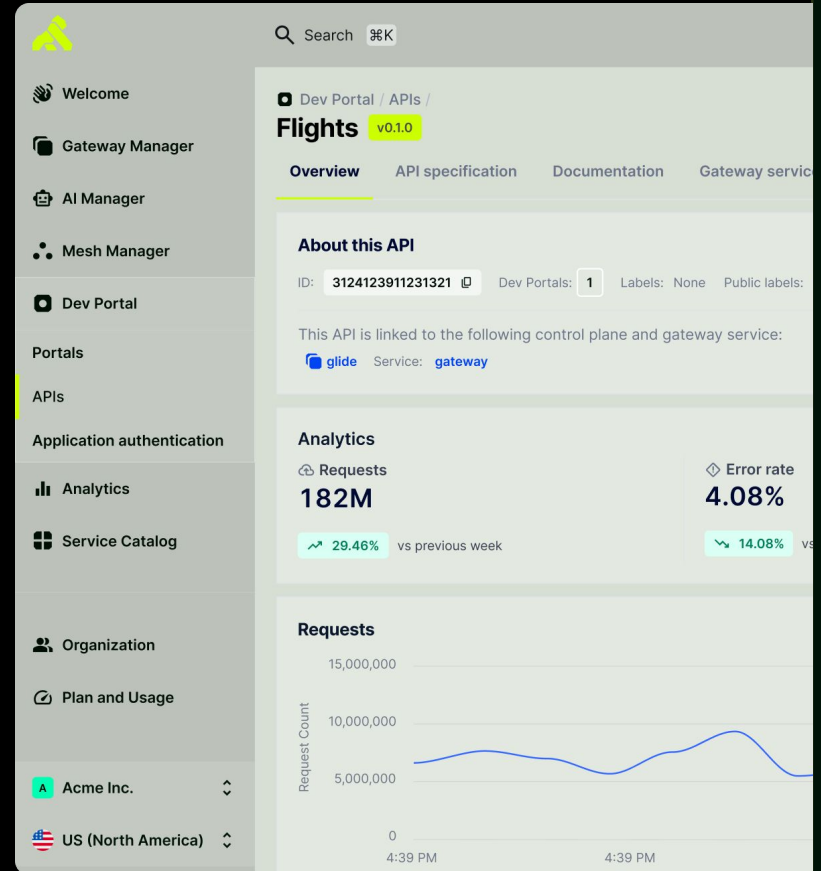
100,000

Galaxy astronaut nebula the orbit Comet black hole supernova (~60)

GRAVITY ORBIT COSMOS

<10ms

Galaxy astronaut nebula the orbit Comet black hole supernova (~60)



THE CHALLENGE

Fragmentation drives AI failure

- Demonstrate the benefits of the partnership through charts, graphs, and statistics.
- Use this space to explain what the data shows and how it impacts both businesses.
- Demonstrate the benefits of the partnership through

GRAVITY ORBIT COSMOS

+80K



SECTION TITLE

**Write a bold, compelling statement
about what the next section will
communicate.**



OUR MISSION

Write a bold, compelling statement about what the company wants to achieve.

Explain how a partnership would help make this goal a reality and why it's worth pursuing together. Think about how your potential partner can contribute.

GSK



OUR MISSION

Write a bold, compelling statement about what the company wants to achieve.

1

Add a value or belief

Define this value and explain how it reflects your company's culture or business aspirations.

2

Add a value or belief

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3

Add a value or belief

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WHAT WE DO

Fragmentation drives AI failure



Prudential

Describe your company's products and services. Keep your potential partner in mind. What do you offer that's relevant to their business?



SECTION TITLE

**Highlight your
company's
growth, metrics,
awards, and
achievements.**



Industry award
Product or campaign

Certifications

00%

Market share

#00

Rank in the industry

**“Quote from published
media coverage about your
company”**

[Link to article](#)



SECTION TITLE

Write a statement about the core principles that guide your company's actions.

1

Add a value or belief

Define this value and explain how it reflects your company's culture or business aspirations.

2

Add a value or belief

Examples of company values or beliefs might include teamwork, innovation, or customer focus.

3

Add a value or belief

For each value, describe how it makes your company desirable as a business partner.



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LET'S WORK TOGETHER

Invite your potential partner to join your business.

Demonstrate the benefits of the partnership through charts, graphs, and statistics. Use this space to explain what the data shows and how it impacts both businesses.

GSK



+80K

Galaxy astronaut nebula the orbit
Comet blackhole supernova (~60)

+120M

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<10ms

Galaxy astronaut nebula the orbit
Comet blackhole supernova (~60)



Our Customers

Galaxy astronaut nebula the orbit Comet blackhole supernova (~60)

“Summarize your key values, as if you were speaking directly to your customer segment.”

Introduce your customer segment. Include demographic information, such as age range or location. Mention their needs, aspirations, and pain points.

Explain how your product or service solves your customers' goals.



OUR CUSTOMERS

Customer segment title

- Age range: 00-00
- Education level: Highest education
- Status: Marital status
- Location: City or state
- Archetype: Tech-savvy

Needs and motivations

- What does this segment want?
- What motivates them?
- What kind of products or services are they looking for?

Pain points

- What interferes with their needs, goals, and motivations?
- What frustrates them in their daily life?

Favorite channels



Technical skills

Device 1



Device 2



Device 3

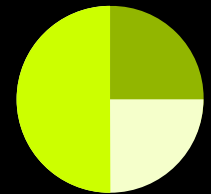


Purchasing habits

Online store

Social media

Physical store



OUR SUCCESSFUL PARTNERSHIPS

**Celebrate what your
team achieved with this
partner.**



Our successful **partnerships**

Partnership 1

Quarter, Year

Introduce one of your current partners. Mention their industry or sector, then describe what you accomplished together. Include key initiatives and outcomes.

[Learn more >](#)

Partnership 2

Quarter, Year

Introduce one of your current partners. Mention their industry or sector, then describe what you accomplished together. Include key initiatives and outcomes.

[Learn more >](#)



Our successful **partnerships**

LOGO

Partnership 1 Quarter, Year

Introduce one of your current partners. Mention their industry or sector, then describe what you accomplished together. Include key initiatives and outcomes.

LOGO

Partnership 2 Quarter, Year

Introduce one of your current partners. Mention their industry or sector, then describe what you accomplished together. Include key initiatives and outcomes.

LOGO

Partnership 3 Quarter, Year

Introduce one of your current partners. Mention their industry or sector, then describe what you accomplished together. Include key initiatives and outcomes.

LOGO

Partnership 4 Quarter, Year

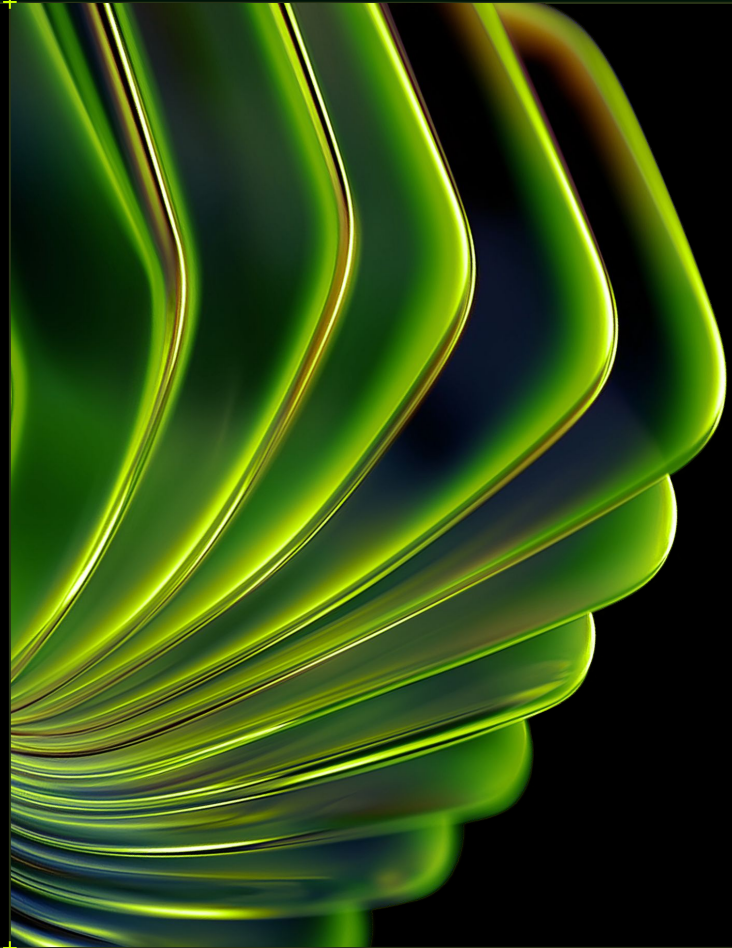
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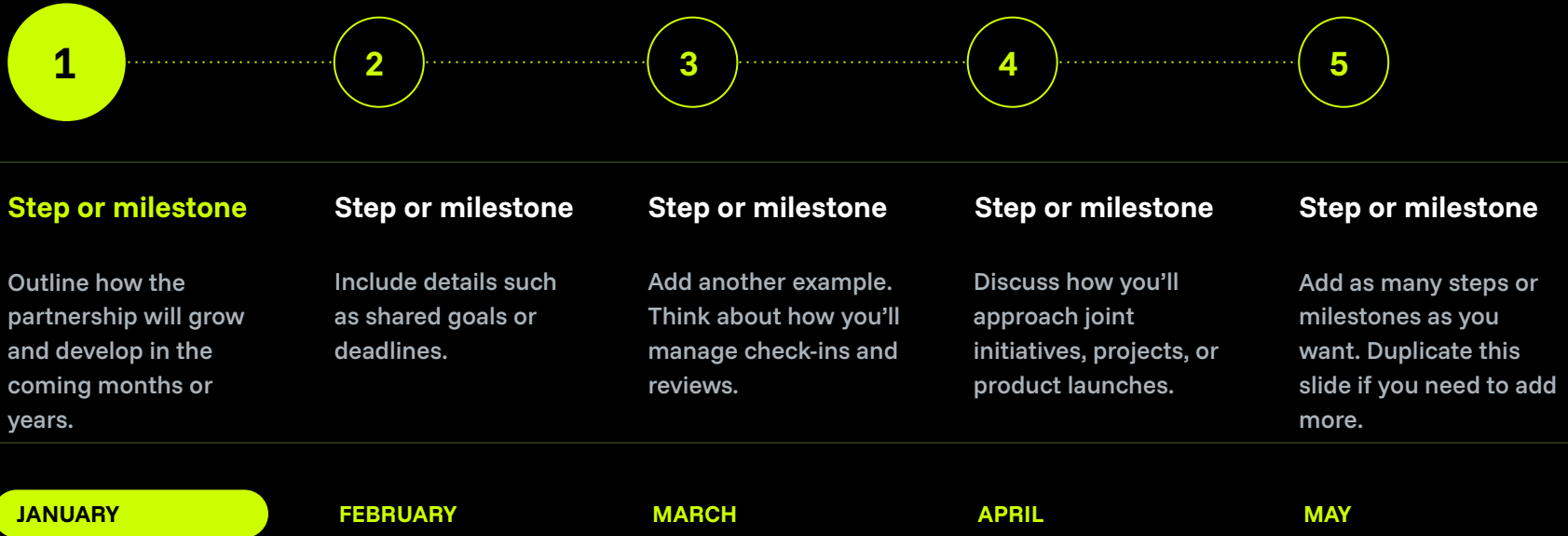
WHAT WE CAN DO TOGETHER

Write a statement about why you want to work with this partner.

- Mention 3 or 4 partnership benefits
- Each benefit should build on the information outlined in the previous slides



How the **partnership** will work



LET'S WORK TOGETHER

Invite your potential partner to join your business.

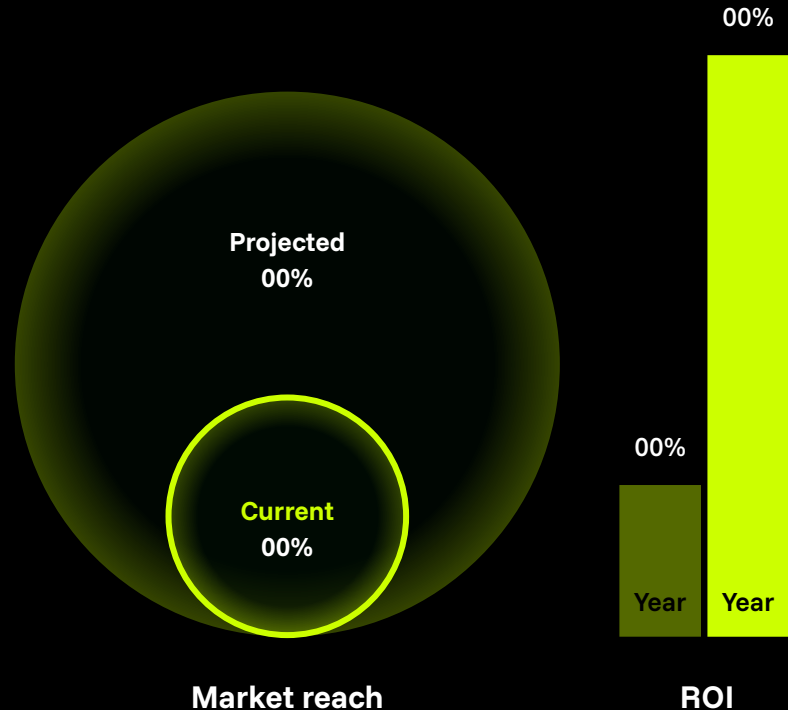
- Mention 3 or 4 partnership benefits
- Each benefit should build on the information outlined in the previous slides
- Include key performance indicators that support your proposal, such as the projected return on investment (ROI) for both parties



LET'S WORK TOGETHER

Invite your potential partner to join your business.

Demonstrate the benefits of the partnership through charts, graphs, and statistics. Use this space to explain what the data shows and how it impacts both businesses.



AGENDA

Timeline

1

Quarter, Year

Outline the next steps of the partnership plan.

2

Quarter, Year

Set a deadline for drafting a partnership agreement, for example.

3

Quarter, Year

Deliver the implementation plan for the partnership.

4

Quarter, Year

Allocate resources and decide on communication channels.



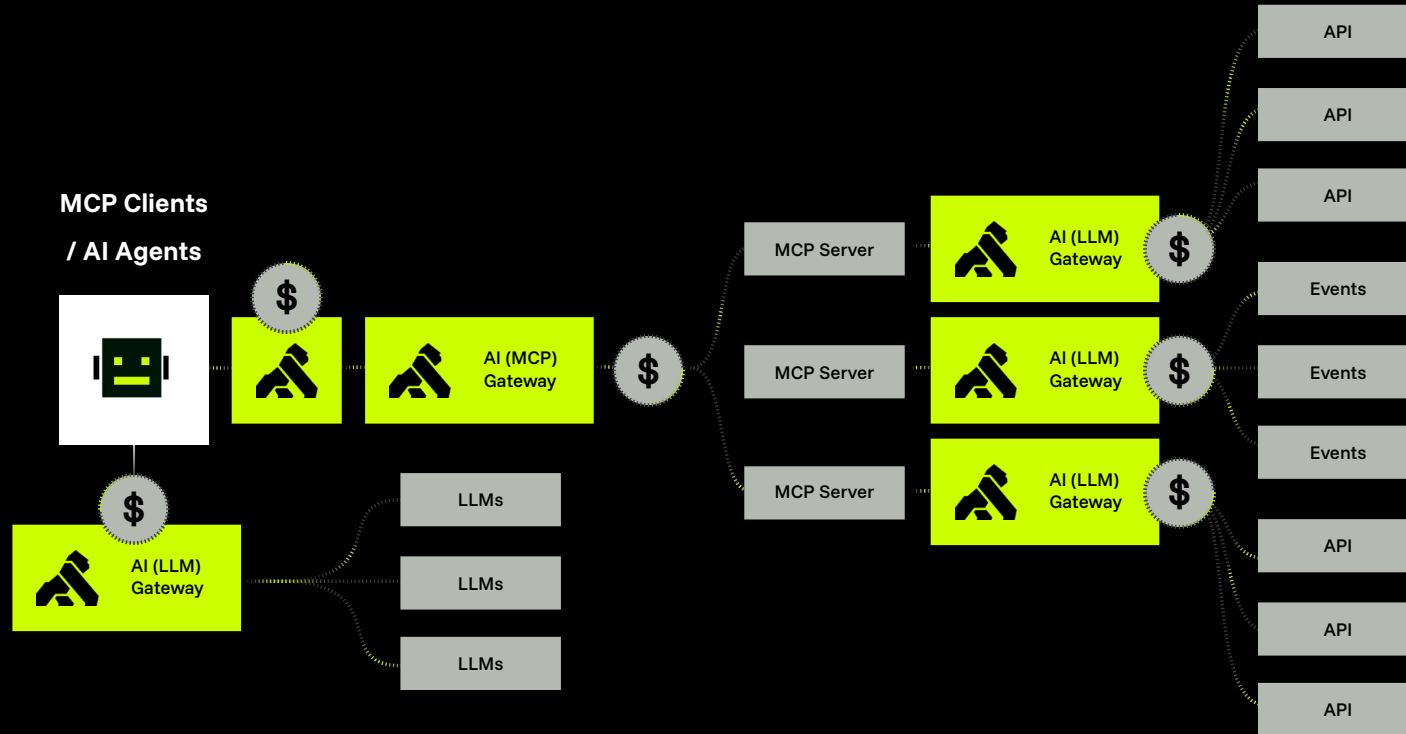


OUR MISSION

Write a bold, compelling statement about what the company wants to achieve.



Ships API and AI innovation to **market faster**



Thank you!

Ready for what's next?

Let's talk

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San Francisco, CA 9410, USA

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Kong



LET'S BREAK THINGS

DEMO

